## **CLAIMS**

1	1. A sample holder system for an automated sample analyzer, comprising:					
2	a first well strip comprising a plurality of wells and a first end and a second end;					
3	at least a second well strip comprising a plurality of wells and a first and a second end;					
4	and and					
5	an interlocking device comprising a first engagement piece disposed on said first well					
6	strip and a second engagement piece disposed on the second well strip wherein said first and					
7	second engagement pieces cooperate to reversibly attach said first well strip with said second					
8	well strip to form a sample holder system.					
1	3. The sample holder system of claim 2 wherein said first well strip and said second					
2	well strip are substantially the same.					
2	4. The sample holder system of claim 2 wherein said first engagement piece is					
2	positioned substantially adjacent the first end of the first well strip and the second engagement					
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1	5. The sample holder system of claim 2 wherein said first engagement piece is					
2	positioned on a first side wall of said first well strip and said second engagement piece is					
	positioned on a second side wall of said second well strip.					
3 1 2	6. The sample holder system of claim 2 wherein said first and second engagement					
2	pieces are reversibly interlockable by horizontally sliding said first well strip relative to said					
3	second well strip.					
1	7. The sample holder system of claim 2 comprising:					
2	a second engagement piece positioned at the second end of the first well strip; and					
3	a first engagement piece positioned at the second end of the second well strip.					
1	8. The sample holder system of claim 1 wherein said first engagement piece					
2	comprises a flange and said second engagement piece comprises a slot and a slit.					

- 9. The sample holder system of claim 5 wherein said first engagement piece positioned at the first end of the first well strip comprises a flange, and said second engagement piece positioned at said second end of said second well strip comprises a slot and a slit.
  - 10. The sample holder system of claim 7 wherein said second engagement piece positioned at the second end of said first well strip comprises a slot and said first engagement piece positioned at said second end of said second well strip comprises a flange.
  - 11. The sample holder system of claim 1 wherein said interlocking device comprises a first engagement piece and a second engagement piece.
    - 12. A well strip, comprising:
- 2 a plurality of wells;

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- a first engagement piece; and
- a second engagement piece, wherein

said first engagement piece is configured to interlock with a complementary second engagement piece of another well strip, and said second engagement piece of said well strip is configured to interlock with a complementary first engagement piece of another well strip.

- 13. The well strip of claim 12 wherein said first engagement piece is substantially positioned near a first end of said well strip and said second engagement piece is substantially positioned near a second end of said well strip.
- 14. The well strip of claim 12 wherein said first engagement piece is positioned on a first wall of said well strip and said second engagement piece is positioned on a second wall of said well strip.
- 15. The well strip of claim 12 wherein said first engagement piece comprises a flange and said second engagement piece comprises a slot and a slit.
- 16. The first well strip of claim 13 further comprising a second engagement piece at said first end and a first engagement piece at said second end.
- 17. A method for increasing the load capacity of an automated sample analyzer, comprising the step of:

3		interlo	cking at least a first well strip and a second well strip together to form a sample		
4	holder	system,	said first and second well strips comprising a plurality of sample wells.		
1		18.	The method of claim 17 further comprising:		
2		loading	g a plurality of said sample holder systems onto said automated sample analyzer;		
3		detachi	ng a first well strip from said sample holder system by disengaging said first well		
4	strip from a second well strip;				
5	moving said first well strip; and,				
6		analyzi	ng said samples in said plurality of wells in said first well strip.		
1		19.	The method of claim 17 wherein interlocking a plurality of well strips to form a		
2	sample	holder	system comprises slidably moving said first well strip horizontally relative to		
3	second	well st	rip to engage said first and second well strips.		
1		20.	The method of claim 17 further comprising introducing a sample into said sample		
2	wells wherein said sample comprises a body fluid.				
		21.	The method of claim 20 wherein said body fluid comprises blood.		
		22.	The method of claim 20 wherein said body fluid comprises urine.		
1		23.	The method of claim 20 wherein said body fluid comprises serum.		
1		24.	The method of claim 18 wherein said sample analysis comprises analyzing said		
2	sample	for a c	oagulation disorder.		
1		25.	The method of claim 18 wherein said sample analysis comprises analyzing said		
2	sample for electrolyte concentration.				
1		26	The method of clam 18 wherein said sample analysis comprises analyzing said		

sample to determine the presence or concentration of a drug.

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a first well strip comprising a plurality of wells, a first and second side wall, and a first and second end; and,

at least a second well strip comprising a plurality of wells, a first and second side wall, and a first and a second end;

each of said first well strip and said at least a second well strip further comprising a flange on said first end of said first side wall, a slot on said second end of said first side wall, a slot on said first end of said second side wall, and a flange on said second end of said second side wall, wherein said slot and flange of said at least a second side wall of said first well strip interlocks with said flange and said slot of said first side wall of said second well strip to form a sample holder system.